CS140 - MEDTIRM - 2021

Q1: A_____ is a storage location in the computer's memory that has a type, name, and contents.

A-variable
B- label
C- literal
D- identifier

Q2: Machine languages are machine independent.
A- True
B- False

Q3: All variables must be given a type when they're declared.
A- True
B- False

Q4: write a java **statement** (not full program) to accomplish the following task:
Test whether variable age id greater than or equal to 30. If it is, print " Age is greater than or equal 30" if it is not, print " Age is less than 30".

Q5: Which of the following is the correct syntax for an if statement?

```
A-  if (number < 0) { result = "negative "; }
        else (number >0) { result = "positive "; }
B-  if (number< 0); { result = "negative "; }
        else (number >0); { result= "positive ";}
C- if (number < 0) { result= "positive "; }
        else { result = "Negative "; }
D-  if { result = "negative "; }
        else (number >0) { result = "positive "; }
```

Q5: Which statement true about the following Java code fragment?
System.out.printin("Welcome!);

A- There is a run-time error
B- There are multiple errors
C- There is a compile-time error
D- There are no errors

Q6: How many times will the following loop run?

```
int i = 0;
while (i < 10)
{
                    System.out.printin(i);
                    i++;
}
```

A- 0
B-9
C- 9
D- 10

Q7: What values does counter variable i assume when this loop executes?

```
 for (int i = 20; i >= 2; i = i - 6)
{
          System.out.print(i + ",");
}
```

A- 20, 14, 8
B- 20, 14, 8, 2, -4
C- 20, 14, 8, 2
D- 14, 8, 2

Q8: What is the output of the following program?

```
public class Main{
          public static void main (String] args) {
int x = 8;
X++;
++X;
X-- ;
System.out.println(x);
System.out.printIn(x/2);
 System.out.println(x/2.0);
System.out.printIn(x%2);
          }
}
```

Q9: How do you create a variable with the floating number 2.8?
A- byte x = 2.8f
B- int x = 2.8f;
C- float x = 2.8f;
D- x = 2.8f;

Q10: How many times will the following loop run?

```
int i = 0;
while (i < 10)
 {
        System.out.println(i); i
        ++;
 }
```

A- 0
B- 9
C- 8
D- 10

Q11: If the loop-continuation condition in a for header is initially false, the program does not execute the for statement's body.
A- True
B- False

Q12: Write a full java program that read two inters from the user then prints the greater number using the ternary java operator "?"

Q13: Write a java program that adds all the integers from 1 to 20 expect 10 and 11 then prints the result.

Q14: What is the output of the following code fragments?

```
int a=30, b=20, c=10
if (3 < 3* 5)
System.out.println("Hello");
System.out.println("There");
if (a <c)
System.out.println("**");
else if (a == b)
System.out.println("&&");
else
System.out.println("$$");
if(++a > b++ )
System.out.println(a+" "+b+" "+c);
```

Q15: _____ is a software application that simulates a computer but hides the underlying operating system and hardware from the programs that interact with it.
A- Interpreter
B- Debugger
C- JVM
D- Compiler

Q16: The if...else statement is used to execute one action when a condition is true and another when that condition is false.
A- True
B- False

Q17: The remainder operator (%) can be used only with integer operands.
A- True
B- False

Q18: The Java compiler translates Java____ into ____ that represent the tasks to execute in the execution phase.
A- source code, running code
B- source code, bytecodes
C- bytecodes, machine code
D- machine code, bytecodes

Q19: Comments cause the computer to print the text after the // on the screen when the program executes.
A- True
B- False

Q20: What is the output of each of the following code fragments?
given the declaration int a=5, b=15, c=20;

```
if (a<b)
System.out.println("####");
else
System.out.println("&&&&");
System.out.println("****");
```

```
if(a<b)
if(a<c)
System.out.println("1111");
else
System.out.printin("2222");
```

```
if (5 > 2)
System.out.print("Hello");

System.out.println("****");
```

Q21: The || operator can be used to ensure that two conditions are both true before choosing a certain path of execution.
A-True
B- False

Q22: After compiling Java file, a new file will be generated with the extension _____
A- .jav
B- .java
C- .jvm
D- .class

Q23: Java source code files are given a name ending with the .java extension.
A- True
B- False

Q24: The break statement in Java terminates the loop immediately, and the control of the program moves to the next statement following the loop
A- True
B- False

Q25: Which of the following loops executes the statements inside the loop before checking the condition?
A- while
B- for
C- do..while
D- do..for

Q26: An algorithm is a procedure for solving a problem in terms of the actions to execute and the order in which they execute.
A- True
B-False